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54 **Nitrogen adsorption process.**

57 The invention relates to a process for adsorption of nitrogen from nitrogen-containing gases using faujasite-containing compositions in which the original hydrogen or monovalent forms are ion exchanged to their polyvalent form and then dehydrated in such a manner as to result in a preponderance of its polyvalent ions in a dehydrated/dehydroxylated state while maintaining substantially the same zeolite content. The resulting compositions, whose cations contained in the faujasitic portion are substantially in their dehydrated/dehydroxylated state, have been found to have surprisingly high selectivities and capacities for the separation of air into nitrogen and oxygen.



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	EP-A-0 109 063 (AIR PRODUCTS AND CHEMICALS) * claims 1, 3-5, 13-15, 21-23, 25-30, 49, 54 * -----	1-10	B 01 D 53/04 C 01 B 13/02
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
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The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 06-10-1987	Examiner BERTRAM H E H
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	